Serial No.: 10/803,918

Confirmation No.: 6704

Applicant: HJARN, Torbjorn

Atty. Ref.: 6730.065.NPUS00

AMENDMENTS TO THE CLAIMS:

Claims 1-16 (Cancelled)

17. (New) A pressurizing arrangement in a mammography equipment piece that is configured to

provide a well defined and comfortable positioning and fixation of a human breast of an

examined person and wherein the mammography equipment piece includes an x-ray source and

an examination area for the breast, as well as an upper and a lower compression plate, said

pressurizing arrangement comprises:

an essentially elastic container constructed of an x-ray permeable material and configured

to be located within the examination area between the upper and lower compression plates, said

elastic container comprising an inlet for receiving a medium which expands the container and

presses the breast against an oppositely positioned compression plate, and said container being

arranged to expand into an inclined configuration having a lower and a higher section, said lower

section being closest to the body of the person during examination.

18. (New) A pressurizing arrangement as recited in claim 17, wherein a contact surface between

said container and the breast exhibits a receiving space such that a compression force is

essentially uniformly distributed on the breast.

19. (New) A pressurizing arrangement as recited in claim 17, wherein the container forms a

pillow positioned on the lower compression plate in the examination area.

20. (New) A pressurizing arrangement as recited in claim 17, wherein a contact surface of the

container substantially surrounds the breast.

21. (New) A pressurizing arrangement as recited in claim 20, wherein container is made from

one of (1) a fabric material, (2) a polymer material and (3) a rubber material.

3

Serial No.: 10/803,918

Confirmation No.: 6704

Applicant: HJARN, Torbjorn

Atty. Ref.: 6730.065.NPUS00

22. (New) A pressurizing arrangement as recited in claim 17, wherein the medium which

expands the container is gaseous.

23. (New) A pressurizing arrangement as recited in claim 22, wherein the medium which

expands the container is air.

24. (New) A pressurizing arrangement as recited in claim 17, wherein the medium is one of (1) a

fluid and (2) a solid medium composed of small particulate.

25. (New) A pressurizing arrangement as recited in claim 24, wherein the medium is water.

26. (New) A pressurizing arrangement as recited in claim 17, further comprising:

conduits attached to the container for conveying medium to at least one inlet and from at

least one outlet of the container.

27. (New) A pressurizing arrangement as recited in 26, wherein said at least one inlet of the

container is attached to a controllable medium compressor.

28. (New) A pressurizing arrangement as recited in 27, wherein said outlet accommodates

evacuation of medium from the container.

29. (New) A pressurizing arrangement as recited in 27, further comprising:

a measuring and control apparatus configured control the compression force exerted on

the breast based on measured pressure in the container.

30. (New) A pressurizing arrangement as recited in 17, further comprising:

a display unit for displaying the measured pressure inside the container.

4

Serial No.: 10/803,918

Confirmation No.: 6704

Applicant: HJARN, Torbjorn Atty. Ref.: 6730.065.NPUS00

31. (New) A pressurizing arrangement as recited in 17, wherein the container is filled with a

temperature-adjusted medium tailored for the examined person's comfort.

32. (New) A breast compression device configured to be installed upon a support arrangement

within a human breast-receiving space of a piece of mammography equipment at a location

within the space adjacent to a breast projection opening into the space, said breast compression

device comprising:

a compression surface configured for abutting engagement with a human breast while an

x-ray image is taken, said breast compression surface having an actuated and an unactuated

configuration relative to the support arrangement and said compression surface being inclined

with respect to the support arrangement in the actuated configuration thereby providing a greater

breast-receiving space for the base of a breast than the distal end of the breast.

33. (New) A breast compression device as recited in 32, wherein said breast compression device

is configured to lay upon a lower compression plate of the piece of mammography equipment at

a location within the breast-receiving space.

34. (New) A breast compression device as recited in 32, wherein said breast compression surface

is configured to abut a majority of the human breast while an x-ray image is taken.

35. (New) A method for reducing patient discomfort during an x-ray mammography examination

in an x-ray apparatus by providing a well defined and comfortable positioning and fixation of the

breast, the method comprising:

arranging the breast on an essentially elastic container consisting of an x-ray permeable

material, arranged in an x-ray exposure area; and

supplying said container with a medium that expands said container and thereby causes

the container to assume an inclined shape whereby the breast is positioned, fixed in place and

pressurized.

5